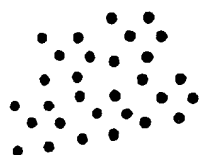


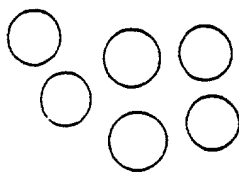


Oligonucleotide
modified Au
nanoparticle probes



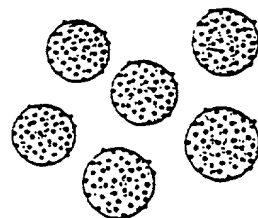
Red

Fluorophore labeled
oligonucleotide modified
latex probes



White/Fluorescent

Au/Latex hybrid

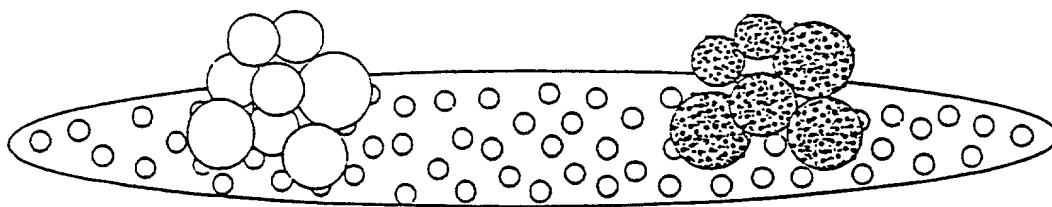


Pink/Non-fluorescent

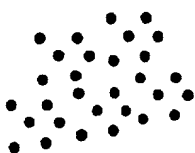
Target
Oligonucleotide

No Target
Oligonucleotide

Target
Oligonucleotide



All Au probes pass
through membrane

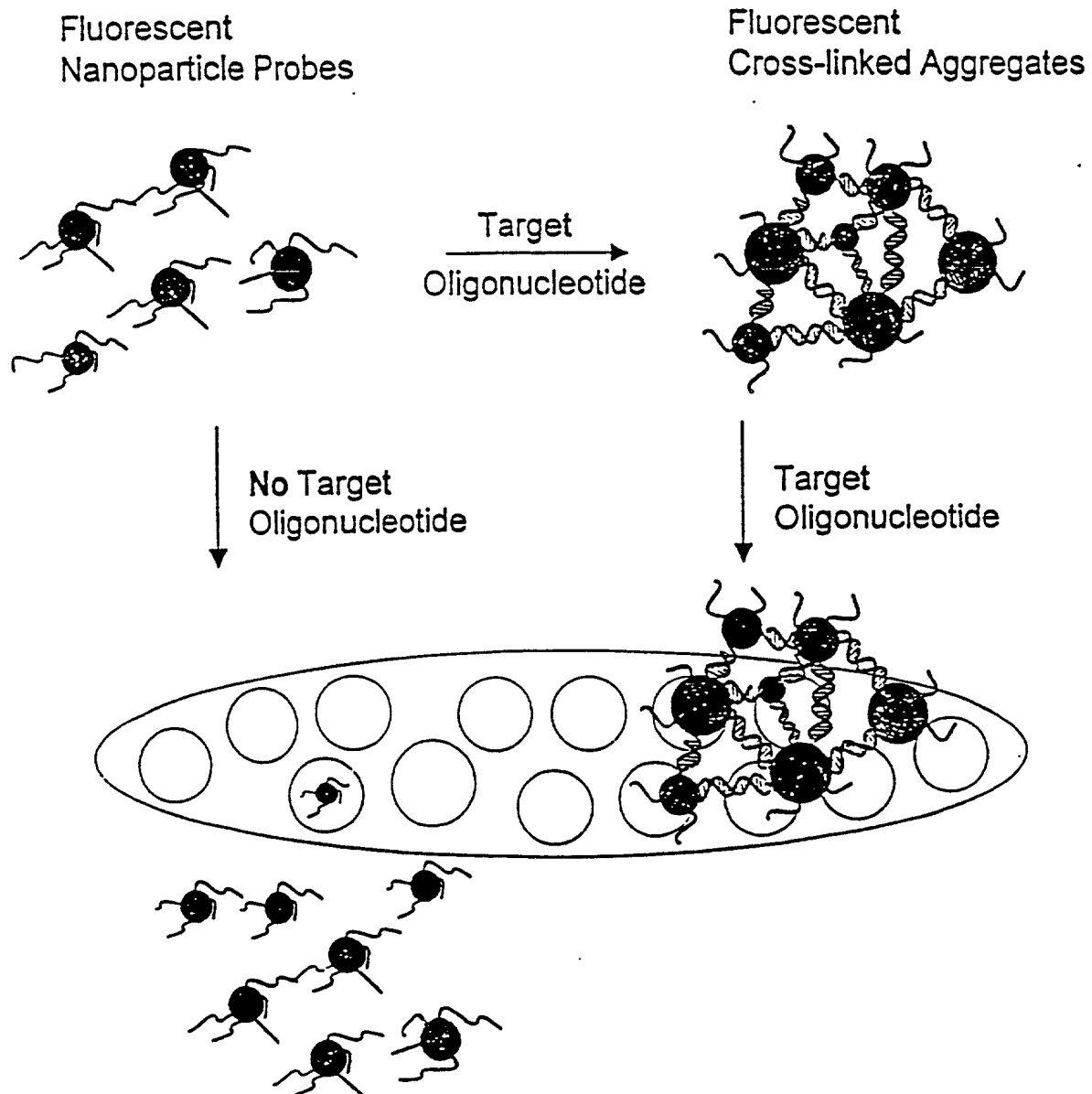


Excess Au probes
pass through
membrane



FIGURE 21

FIGURE 22



The fluorescent nanoparticle probes pass through the membrane

The fluorescent cross-linked aggregates are retained by the membrane